



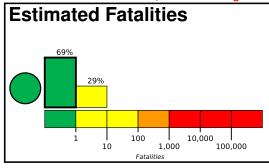


**PAGER** Version 7

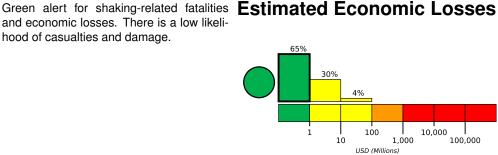
Created: 14 hours, 52 minutes after earthquake

**M 4.2, 11km ESE of Willits, CA**Origin Time: 2020-08-19 00:55:23 UTC (Tue 17:55:23 local)
Location: 39.3605° N 123.2458° W Depth: 8.2 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov



and economic losses. There is a low likelihood of casualties and damage.

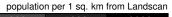


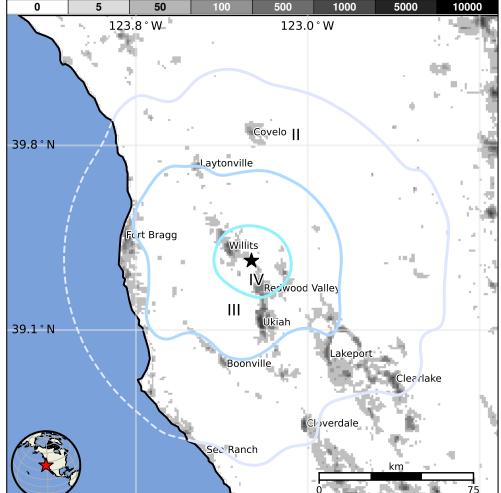
**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		178k*	129k	17k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

# Population Exposure





### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73446356#pager

# **Structures**

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	343	6.0	VI(47k)	1
1980-01-24	225	5.8	VII(35k)	1
1989-10-18	281	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

# Selected City Exposure

from G	eoNames.org	
MMI	City	Population
IV	Willits	5k
IV	Redwood Valley	2k
Ш	Brooktrails	3k
Ш	Ukiah	16k
Ш	Talmage	1k
Ш	Upper Lake	1k
II	Cloverdale	9k
II	Clearlake	15k
I	Healdsburg	11k
I	Windsor	27k
1	Red Bluff	14k

bold cities appear on map.

Event ID: nc73446356